NEHA-TECH INDUSTRIES

Save Life • Secure Quality • Serve on time

MFG. OF FIRE FIGHTING EQUIPMENTS

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G-29, RIICO Industrial Area, Bagru Extn., Jaipur-303 007 (Raj.) INDIA

Tel. : +91-141-2100376 • +91-99500-23883

E-mail : nehatech29@gmail.com • Visit us at : www.tulsifire.com

INTORDUCTION

Established in 2012, Neha-Tech Industries, has grown successfully year on year by providing specialist product and application knowledge to customers around the world.

Our technical sales team have years of combined knowledge of hose, couplings and applications. As consequence Neha-Tech has built up detailed and up to date knowledge of the latest development in hose and hose couplings and can advise you on your applications and installations.

We supply only Top Quality products from world leading suppliers. Our customers includes everyone from sole traders to the largest multinational blue chips companies. Our products includes all Marine sector, Industry, Petro Chemical Sector, Agriculture, Fire Protection and Chemicals.

From one off orders to on-going projects, our product knowledge, large stock and our first class customer service means that ou can be assured of prompt and accurate solutions to all your technical and commercial enquiries.

Please browse through our website which we hope that you will find a valuable resource, now and for future projects. Don't forget that if you do not see exactly the solution you seek, it does not mean that we cannot fabricate and / or supply the product required. We are confident that we can supply the fittings, couplings, hose and adapters required, first time, every time.

If you wish to discuss your application, installation, problem or requirement, please give us a call. You will not be sorry that you did.

INFRASTRUCTURE

Our line-up comes tested along the following parameters :

- Strength
- Performance
- Dimensional accuracy
- Resistance to corrosion
- Sturdiness

Other departments of our infrastructure are as follows:

- Quality control
- R & D
- Warehousing
- Sales and marketing

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INFRASTRUCTURE

Our large infrastructure helps us in fulfilling the diverse requirements of our clients within the given time frame. By dividing our infrastructure into various departments we have achieved enormous fame as our quality has been graded in accordance to the global standards. Adding to the list, we have installed various highly advanced machines and tools at our manufacturing unit, which help in developing our specialized range of Fire Fighting Accessories Industrial Furnace. With the never ending progress, we have made it a point to upgrade our machines with the latest developments in the market.












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RESEARCH & DEVELOPMENT

Our Quality Standards has forever emphasized upon quality production and delivery. We insure that our quality officers test our product line-up on every stage of production, with the aim of ensuring quality delivery of high class and reliable products to our clients.

QULITY CONTROL

OZONE RESISTANCE TEST

OIL RESISTANCE TEST

HUMIDITY TEST

BURST PRESSURE TEST

KINK TEST

INNER DIAMETER

ADHESIONS TEST

Mass Test (Hot Air Oven)

R & D DEPARTMENT

WARE HOUSE DEPARTMENT

DELIVER ON TIME

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TULSI SILVER

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TULSI SILVER

Rubberlined Hose - Type - A & Type I
CM/L : 2721046

DESCRIPTION

Time tested traditional quality, spurn polyester and polyester filament synthetic jacked fire hose with high ozone resistant EPDM rubber lining, conforming to BS:6391 (Type 1) & IS:636:88 (TYPE A).

SAILENT FEATHRES

- ✓ Widely approved and standardized by Defense & State Fire Service.
- ✓ Easy visibility
- ✓ Maintenance free
- ✓ Suitable for use in multistoried buildings, Power Plants, Steel Plants Railways, Mines and all other industries.
- ✓ Fungus and heat resistant

Internal Diameter		TULSI SILVER Rubberlined Hose - Type - A & Type I CM/L : 2721046				
mm	inch	Max. Weight	Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	260	315	22	515	36
50	2"	335	315	22	515	36
63	2-1/2"	425	315	22	515	36
70	2-3/4"	480	315	22	515	36

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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TULSI SILVER (DJ)

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TULSI SILVER (DJ)

Double Jacket Rubberlined Hose

DESCRIPTION

Time tested traditional quality, spurn polyester and polyester filament synthetic jacked fire hose with high ozone resistant EPDM rubber lining, conforming to BS:6391 (Type 1) & IS:636:88 (TYPE A). This hose is with extra synthetic jacket to increase its abrasion.

SAILENT FEATHRES

- ✓ Widely approved and standardized by Defense & State Fire Service.
- ✓ Easy visibility
- ✓ Maintenance free
- ✓ Suitable for use in multistoried buildings, Power Plants, Steel Plants Railways, Mines and all other industries.
- ✓ Fungus and heat resistant

Internal Diameter		TULSI SILVER Rubberlined Hose - Type - A & Type I CM/L : 2721046				
mm	inch	Max. Weight	Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	360	425	30	710	50
50	2"	450	425	30	710	50
63	2-1/2"	560	425	30	710	50
70	2-3/4"	660	425	30	710	50

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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TULSI

FIRE PROTECT

Available indifferent colour ■ Reddish ■ Brown ■ Blue ■ Green ■ Black □ Yellow

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TULSI FIRE PROTECT

Rubberlined Hose - Type - A & Type III

DESCRIPTION

Synthetic jacketed fire hose with unified lining and cover of special polymer compound, Conforming to BS:6391 (Type III) & ISI 636:88 (Type B) & UL19.

SAILENT FEATHRES

- ✓ Widely approved and standardized by Fire Brigades.
- ✓ Flexible and maintenance free .
- ✓ Suitable for use in Petro Chemicals, Refineries, Oil Rigs, Mines, Dry Docks and Chemical Plants.
- ✓ Meets International standards for abrasion, heat and chemicals.
- ✓ Ozone & UV resistant

Internal Diameter		TULSI FIRE PROTECT Rubberlined Hose - Type - A & Type III						
mm	inch	Max. Weight	Working Pressure		Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	320	150	10.50	330	23	540	36
50	2"	420	150	10.50	330	23	540	36
63	2-1/2"	500	150	10.50	330	23	540	36
70	2-3/4"	600	150	10.50	330	23	540	36

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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TULSI

FIRE PROTECT (UL19)

Available indifferent colour ■ Reddish ■ Brown ■ Blue ■ Green ■ Black □ Yellow

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TULSI FIRE PROTECT (UL19)

Rubberlined Hose - As per UL19

DESCRIPTION

Synthetic jacketed fire hose with unified lining and cover of special polymer compound, Conforming to BS:6391 (Type III) & UL19.

SAILENT FEATHRES

- ✓ Widely approved and standardized by Fire Brigades.
- ✓ Flexible and maintenance free .
- ✓ Suitable for use in Petro Chemicals, Refineries, Oil Rigs, Mines, Dry Docks and Chemical Plants.
- ✓ Meets International standards for abrasion, heat and chemicals.
- ✓ Ozone & UV resistant

Internal Diameter		TULSI FIRE PROTECT (UL19) Rubberlined Hose - As per UL19						
mm	inch	Max. Weight	Working Pressure		Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	320	200	14	400	28	600	42
50	2"	420	200	14	400	28	600	42
63	2-1/2"	500	200	14	400	28	600	42
70	2-3/4"	600	200	14	400	28	600	42

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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TULSI

Reinforced Rubberlined Hose - Type - A & Type I
CM/L : 2721046

DESCRIPTION

Time tested traditional quality, spurn polyester filament synthetic jacketed fire hose, conforming to BS : 6391 (Type 1) & IS : 636:88 (TYPE A).

SAILENT FEATHRES

- ✓ Widely approved and standardized by Defense & State Fire Service.
- ✓ Easy visibility
- ✓ Maintenance free
- ✓ Suitable for use in multistoried buildings, Power Plants, Steel Plants Railways, Mines and all other industries.
- ✓ Heat resistant

Internal Diameter		TULSI Reinforced Rubberlined Hose - Type - A & Type I CM/L : 2721046				
mm	inch	Max. Weight	Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	260	315	22	515	36
38	2"	335	315	22	515	36
38	2-1/2"	425	315	22	515	36
38	2-3/4"	480	315	22	515	36

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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TULSI COOL

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TULSI COOL

Controlled Percolating Hoses

DESCRIPTION

This is lightweight soft and flexible free hose with controlled percolation. During forest fire long length hoses can be easily carried by fireman. Confirming to IS : 8423:2001

CONSTRUCTION

- ✓ 100% synthetic yarn or cotton / synthetic yarn circularly woven in oxford weaves.
- ✓ Ultra thin lamination by a patented process.

APPLICATION

- ✓ To combat forest fire in hill and country side.
- ✓ Floor washing.
- ✓ Irrigation and agriculture.

FEATURES

- ✓ Compact, flexible & light weight.
- ✓ Low friction loss.
- ✓ Ability to withstand high operating and back pressure

Internal Diameter		TULSI COOL Controlled Percolating Hose				
mm	inch	Max.Weight	Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	230	315	22	525	37
50	2"	250	315	22	525	37
63	2-1/2"	280	315	22	525	37
70	2-3/4"	335	315	22	525	37

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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AQUADEW COOL

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TULSI AQUADEW COOL

Controlled Percolating Hoses

DESCRIPTION

This is lightweight soft and flexible free hose with controlled percolation. During forest fire long length hoses can be easily carried by fireman. Confirming to IS : 8423:2001

CONSTRUCTION

- ✓ 100% synthetic yarn or cotton / synthetic yarn circularly woven in oxford weaves.
- ✓ Ultra thin lamination by a patented process.
- ✓ Extra rubber coated for more abrasion & test pressure.
- ✓ Developed as per Indian & International market.
- ✓ Developed as equal to TULSI (RRL) as per IS : 636:1988.

APPLICATION

- ✓ To combat forest fire in hill and country side.
- ✓ Floor washing.
- ✓ Irrigation and agriculture.

FEATURES

- ✓ Compact, flexible & light weight.
- ✓ Low friction loss.
- ✓ Ability to withstand high operating and back pressure.
- ✓ Designed as per non-percolating fire hose.

Internal Diameter		TULSI AQUADEW COOL Controlled Percolating Hose				
mm	inch	Max.Weight	Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	260	315	22	515	36
50	2"	335	315	22	515	36
63	2-1/2"	425	315	22	515	36
70	2-3/4"	480	315	22	515	36

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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TULSI STAR

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TULSI STAR

Rubberlined Hose - Type - A & Type I

DESCRIPTION

Synthetic jacketed fire hose with spurn polyester & nylon filament conforming to BS:6391 (Type 1) & IS : 14933 : 2001 (Type A)

SAILENT FEATHRES

- ✓ Widely approved and standardized by Fire Brigades.
- ✓ Flexible and maintenance free.
- ✓ Suitable for use in Petro Chemicals, Refineries, Oil Rigs, Mines, Dry Docks and Chemical Plants.
- ✓ Meets International standards for abrasion, heat and chemicals.

Internal Diameter		TULSI STAR Rubberlined Hose - Type - A & Type I				
mm	inch	Max. Weight	Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	350	500	35	710	50
50	2"	450	500	35	710	50
63	2-1/2"	550	500	35	710	50
70	2-3/4"	650	500	35	710	50

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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TULSI STAR JET

Available indifferent colour ■ Reddish ■ Brown ■ Blue ■ Green ■ Black ■ Yellow

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TULSI STAR JET

Rubberlined Hose - Type - B & Type III

DESCRIPTION

Synthetic jacketed fire hose with unified lining and cover of special polymer compound, Conforming to BS:6391 (Type 3) & IS : 14933:2001 (Type B) & UL 19.

SAILENT FEATHRES

- ✓ Widely approved and standardized by Fire Brigades.
- ✓ Flexible and maintenance free.
- ✓ Suitable for use in Petro Chemicals, Refineries, Oil Rigs, Mines, Dry Docks and Chemical Plants.
- ✓ Meets International standards for abrasion, heat and chemicals.
- ✓ Ozone & UV resistant.

Internal Diameter		TULSI STAR JET Rubberlined Hose - Type - B & Type III				
mm	inch	Max. Weight	Proof Pressure		Burst Pressure	
			PSI	Kg / Sq.cm	PSI	Kg / Sq.cm
38	1-1/2"	350	500	35	710	50
50	2"	450	500	35	710	50
63	2-1/2"	550	500	35	710	50
70	2-3/4"	650	500	35	710	50

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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TULSI SPECIAL

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TULSI SPECIAL

Rubberlined Hose - Type - A & Type II

DESCRIPTION

Hi-tech export quality, fungus resistant, synthetic jacketed, non-percolating fire hose with outer elastomeric coating bearing ISI mark as per IS:636/1988 Type A, duly supported by ISO:9002 Quality Systems Certification.

SAILENT FEATHRES

- ✓ Widely approved and standardized by Defense & State Fire Service.
- ✓ Special and polymeric coating for higher abrasion resistance.
- ✓ Easy visibility.
- ✓ Maintenance free.
- ✓ Suitable for use in Multistoreyed buildings, Power Plants, Steel Plants, Railways, Mines and all other industries.
- ✓ Fungus and heat resistant.

Internal Diameter		TULSI SPECIAL Rubberlined Hose - Type - A & Type II		
mm	inch	gms/mtr	Kg/sq.cm	Kg/sq.cm
38	1-1/2"	255	21.4	35.7
50	2"	330	21.4	35.7
63	2-1/2"	425	21.4	35.7
70	2-3/4"	480	21.4	35.7

- ✓ Length up to 30 meter (max) as per customer demand.
- ✓ India's only fire hose manufacturer with its own R&D Laboratory, Recognized by the Govt. of India.

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QUALITY POLICY

We strive for ' excellence' by providing customized solutions, products & services that best satisfies the requirements of our Customers and continuously improve quality, reliability & service with the help of an effective Quality Management System, encompassing all statutory, regulatory, health, safety & environment requirements at our work place.

In order to ensure total customer satisfaction, we have built-up a solid infrastructure and techno-commercial network in India. The company has a team of highly qualified and experienced supervisory persons who check and assure quality at every stages of production and also check the final product before it is dispatched from the factory premises. In order to achieve the objectives of quality policy, company plans to implement & achieve total quality management. The company assured quality checks under the guidance and expertise of certified quality management consultants. We make continuous effort to win the trust and confidence of the customers by providing them with premium quality products at affordable prices. We go beyond norms and limits set by standards and create our own standards to achieve excellence. We believe in Kaizan Policy (that means continuous improvement).

- A customer is the most important visitor at our premises.
- He is not dependent on us. We are dependent on him.
- He is not an interruption in our work. He is the purpose of it.
- He is not an outsider in our business. He is part of it.
- We are not doing him a favor by serving him. He is doing us a favor by giving us an opportunity to do so.

Tax	:	VAT & CST will be charged extra as applicable.
Payment	:	All payments to be made through Cheque / DD or P.O. payable at Jaipur
Dispute	:	All trasnaction or any dispute subject to Jaipur Jurisdiction only.
Order	:	40% advance of the total value with the order and the balance amount through Bank by DD or Pay order payable at Jaipur against delivery of the documents.
Supply	:	We reserve right to company the order in full or part thereof.
Interest	:	interest @ 18% p.a. will be charged extra on every bill if the bill is not paid within one month.
Claim	:	Claim of damage if any to be settled by the buyer directly with the transport company or railway authorities on when soever it be.
Guarantee	:	No responsibility will be accepted for accident arising in mishandling or misused or any loss what soever may due to breakage, leakage and shortage during transit accident.
Warranty	:	All products have warranty of one year for any manufacturing defect from the date of supply.

We Also Do Binding
As Per Customer Requirements With Automatic Machines.

Binding : Copper / Stainless Steel / Galvanised Wire

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REVIEW ON FIRE HOSE CARE "DO'S & DON'TS"

Do :

- After shutting off dumps & hydrants but before breaking loose any couplings, remove any normal twisting that occurs when hose is pressurized.
- Completely drain hose of water.
- Drag hose along its flat surface - abrasion distributed over a larger surface area.
- Reload only thoroughly dried hose.
- Load hose by laying it flat.
- Lay hose in hose bed by laying in alternating layers.
  - prevents chafing of the hose in the hose bed.
  - prevents folds from contacting roadway surfaces on deployment.
- Thoroughly drain & dry hose before storing.
- Walk at least 15 feet to the left side (facing the free end) of a hoseline being tested.
- Remove & reload hose in hose bed every six months.
  - folds occur in different locations along the hose.
  - prevents localized wear.
  - allows visual inspection of hose.
- Roll hose with male coupling inside roll to protect threads.
  - if male coupling must be on outside, use a protective cap over threads.
- Use hose bridge whenever necessary for vehicles to drive over any charged or uncharged fire hose.
- Open & close valves slowly on Large Diameter Hose (LDH).

Do Not :

- Drag hose along edge or fold – concentrates abrasion on outer jacket in the folded area.
- Drag hose with water in line – causes premature hose wear remember that water weighs approximately 8.3 pounds per gallon.
- Drag hose that is kinked over itself – concentrates & accelerates abrasion damage.
- Lay hose on edge with folds in contact with the hose bed.
- Use a pressure washer to clean fire hose.
- Drive over a charged or uncharged fire hose without the use of a hose bridge.
- Walk on the right side (facing free end) or straddle fire hose being pressure tested.
- Store fire hose wrapped in plastic material or bags.
- Store fire hose with stretch wrap or any air-tight environment.
- Store hose in direct sunlight or in poorly-ventilated areas.

FIRE HOSE CLEANING PROCEDURES

After each use, all hose shall be cleaned per NFPA 1962 Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose, Chapter 4.7 Cleaning and Drying (Latest Edition).

It is recommended to "dry" brush the hose using a soft to medium bristle brush. However, if the dirt cannot be thoroughly brushed from the hose the hose shall be washed. If the hose has been exposed to hazardous materials, it shall be decontaminated by the method(s) approved for the contaminate. Covered (nitrile, rubber) hose shall be permitted to be wiped dry.

If the hose needs to be washed, use the following guidelines:

1. Unroll the hose (avoid dragging the hose) and stretch it out in its entirety on a clean, level surface. Care must be taken not to damage to the male coupling threads. Thoroughly rinse the fire hose with clean water.

   Note : If several hose sections are being cleaned at the same time, lay them side to side but be sure to separate them enough to allow for proper draining.
2. Fill a large bucket with mild, soapy water. The water should be ambient temperature. Using a long-handled brush with soft to medium bristles, scrub the entire length of hose.
3. Carefully turn the hose over to the opposite side and thoroughly rinse the hose with clean water. Using a long-handled brush with soft to medium bristles, scrub the entire length of hose with mild, soapy water.
4. Using a garden hose, completely rinse the soap from the hose on both sides. Avoid using a high powered pressure washer.
5. Dry the hose thoroughly using the method best suited for the weather conditions and facility equipment (hose tower, hose dryer, slanted hose rack, etc.).

   Note : Hose shall not be dried on hot pavements or under intense sunlight.

CARE, HANDLING & MAINTENANCE
FOR ATTACK HOSE, LARGE DIAMETER HOSE (LDH) & SUPPLY HOSE

North American Fire Hose Corporation is committed to providing the highest quality raw material, unique designs features, and special manufacturing methods in producing our attack line hose and large diameter hose. Our goal is to provide superior performance, low maintenance, and long service life.

The following care, handling, and maintenance guidelines were prepared to provide information to both first-time hose users, as well as to departments that are experienced in the use of hose lines.

DRAGGING ATTACK LINE HOSE OR LARGE DIAMETER HOSE (LDH)

- Avoid dragging hose along the edge or fold, as this action concentrates abrasion of the outer jacket in the folded area. Also, avoid dragging hose that is kinked back upon itself, as this greatly concentrates abrasion to the area where the kink contacts the ground. By dragging the hose along the flat surface, the abrasion is distributed over a larger surface area, thereby minimizing wear. In contrast, dragging hose along the edge or while kinked, can greatly concentrate and accelerate abrasion damage.
- Also, avoid dragging hose that has not been completely drained of water, either along the edge or while kinked back upon itself, as the added weight will further contribute to premature hose wear.

LOADING HOSE INTO THE APPARATUS HOSE BED

- Only hose that is thoroughly dried should be reloaded in the hose bed and stored for a prolonged period of time.
- Hose should be loaded by laying the hose flat in the hose bed. The hose should never be loaded on edge, with the folds in contact with the bottom of the hose bed. Lay the hose across the bed in alternating layers rather than loading one row of hose all the way to the top of the hose bed. Loading in this manner will prevent chafing of the hose in the hose bed and will also prevent the folds from contacting the roadway surface on deployment, thereby reducing edge wear to the hose. Couplings should be loaded in a manner that prevents them from flipping over when deploying hose and striking the apparatus hand rail.
- Hose should be removed and reloaded on the hose bed at least once every six months so that the folds occur at different locations along the hose to prevent localized wear and to allow for visual inspection of the hose in order to evaluate any damaged areas. It is strongly recommended to reload Nitrile Rubber Covered Hose after each use with the folds at different locations.

SPECIAL PRECAUTIONS FOR PRESERVING THE HOSE COMPARTMENT AND HOSE

- The hose should be loaded in a manner to allow for air to freely circulate between the hose bed and the hose to prevent rusting, corrosion or rotting of the hose bed. If this is not possible, then hose should be as dry as practical before reloading (NFPA 1962 Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose, Latest Edition).
- Even though North America Fire Hose uses synthetic materials to construct large diameter hose and attack fire hose, and they are not deteriorated or affected by mildew formation, such a situation may cause rusting of the apparatus or rotting of the wooden flooring under the hose bed.
- If hose is reloaded in a wet condition, then mold and/or mildew will be likely to form on the hose and within the hose bed.
- Beyond the obvious housekeeping effects (unattractive mold and mildew growth on the hose, unappealing musty, stale odor from the hose bed), there may also be undesirable health effects in certain sensitive individuals.
- Also, in certain extreme situations, severe mold and/or mildew growth can result in the molecular breakdown of some of the synthetic components used in fire hose constructions.
- For these reasons, we strongly suggest that the hose be as dry as possible before storage, especially in high ambient temperature and high humidity environments.

STORAGE OF FIRE HOSE

- All hose shall be kept out of direct sunlight and in a well-ventilated location. All hose shall be drained and thoroughly dried before being placed in storage. (NFPA 1962 Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose, Chapter 4.8, Latest Edition). Protect the male coupling threads by rolling the hose with the male coupling on the inside of the roll. It the male coupling has to be on the outside of the roll, use a protective cap over the threads.
- Do not store fire hose wrapped in plastic material or plastic bags, store with stretch wrap left intact or store in any other containers that create an air-tight storage environment, Our experience indicates that such storage conditions may create an environment that promotes growth of mold or mildew in the packaging materials (e.g. cardboard cartons, etc.) which can stain the hose which comes in contact with those materials.

COUPLING DAMAGE DUE TO HOSE DEPLOYMENT

- Care must be taken when laying hose onto the street from a hose bed to prevent the couplings from being damaged by flipping up and striking the hand rail or by dropping too hard onto the apparatus tailboard or onto the street. Also, care should be taken to avoid dropping the couplings onto a hard surface when disconnecting the hose after use.

HOSE BRIDGES

- Hose bridges should be used whenever it is necessary for vehicles to drive over any fire hose, to prevent damaging either the couplings or hose.

HYDRANT CONNECTIONS

- When attaching the hose to a hydrant, allow for enough slack to permit a smooth bend radius from the hydrant. Also, open the hydrant slowly to minimize any water hammer effects.

PUMPER CONNECTIONS

- Allow for enough slack in the hose to permit a smooth bend radius to the pumper connection.

RELAY APPLICATIONS FOR LARGE DIAMETER HOSE (LDH)

- When relaying water from a pumper near the water source to another pumper, the inlet or suction side of the pump receiving the relay should be equipped with a relief valve to reduce and control any water hammer effects. A discharge relief valve or automatic pressure governor does not protect the suction side of the pump. The relay relief valve should also be capable of controlling the build-up of air pressure.
- Correct operational procedures should be established and practiced before attempting relay-supply operations as personal injuries, pump damage and hose coupling damage could result from improper operations.
- The surge of pressure experienced when a high velocity water flow is abruptly shut off can cause momentary pressures and stresses up to seven times the static pressure (NFPA 1962 Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose, Latest Edition). Therefore, it is of utmost importance when using large diameter hose to open and close valves slowly to minimize this effect.

RELOADING AND COILING PROCEDURES

- After shutting off all pumps and hydrants, but prior to breaking loose any of the couplings, the normal twisting that occur when the hose is pressurized should be removed. Only after this twist in the hose is removed should the couplings be broken loose. At this point, it is important to break loose all of the couplings in order to allow the water to drain from the hose. This procedure is important to prevent the inner jacket and the liner from collapsing and twisting within the outer jacket as a result of the vacuum that can form inside the hose as the water is drained. Then, remove the residual water by walking along the length of the hose and lifting the hose to shoulder level as you walk, thereby forcing the water ahead of you towards the coupling. Next, pull the hose straight and remove any remaining twist from the hose. Finally, the department can choose either to re-connect the couplings or to reload the hose at the fire scene by backing the truck up to the hose, or else the hose can be coiled and reloaded onto the hose bed at the station.

- Remember, rolling the hose before reloading purges any water and air trapped inside the hose allowing the hose to lay flat. This will make for a more compact load. When possible avoid the horseshoe and accordion lays as these loads place extra wear on the edges of the hose.

INSPECTION AND SERVICE TESTING

- The hose shall be inspected and service tested annually per NFPA 1962 Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose, Latest Edition. Also, the hose should be service tested after the re-attachment of couplings. In addition, inspection and service testing is warranted whenever the hose is questionable or has been exposed to severe abrasion, cutting, heat damage, chemical attack, freezing or extreme water hammer.

- When visually inspecting the hose and couplings under pressure, always walk at least 15 feet to the left side of the hoseline, facing the free end, with the apparatus / pressure source behind you. While testing the hose, never stand in front of the free end of the hose, straddle the hose, walk on the right side of the hose (facing the free end) or walk closer than 15 feet to the left side of the hose (facing the free end).

HOSE REPAIR

- To maintain the Warranty provided by North American Fire Hose, repairs will be limited to coupling attachment replacements, provided the person conducting the repair has attended the Coupling Attachment Hands-on Instructional Class at North American Fire Hose's facility. This training is provided at no charge at the time of the lot acceptance testing, if requested. If the hose is re-coupled for any reason, that length of hose shall not be placed back into service before being re-tested.

FIRE HOSE CLEANING PROCEDURES

After each use, all hose shall be cleaned per NFPA 1962 Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose, Chapter 4.7 Cleaning and Drying (Latest Edition).

1. Unroll the hose (avoid dragging the hose) and stretch it out in its entirety on a clean, level surface. Care must be taken not to damage to the male coupling threads. Thoroughly rinse the fire hose with clean water.

   Note : If several hose sections are being cleaned at the same time, lay them side to side but be sure to separate them enough to allow for proper draining.

2. Fill a large bucket with mild, soapy water. The water should be ambient temperature. Using a long-handled brush with soft to medium bristles, scrub the entire length of hose.

   Note : Do not use a pressure washer or pressure washer solution, as this could damage the hose.

3. Carefully turn the hose over to the opposite side and thoroughly rinse the hose with clean water. Using a long-handled brush with soft to medium bristles, scrub the entire length of hose with mild, soapy water.

4. Using a garden hose, completely rinse the soap from the hose on both sides. Avoid using a high powered pressure washer.

5. Dry the hose thoroughly using the method best suited for the weather conditions and facility equipment (hose tower, hose dryer, slanted hose rack, etc.).

   Note : Hose shall not be dried on hot pavements or under intense sunlight.

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